

Coaxial Cable G_03233

Description

PE-75 Ohm - single screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.49 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper	Braid, 95%	3.6 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	5 mm +/- 0.15

Print: HUBER+SUHNER G 03233 75 Ohm (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	$\geq 1 \times 10^8$ MQm
Min. screening effectiveness	≥ 39 dB (up to 1 GHz)
Max. operating voltage	≤ 2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	3.9 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings)
	25 mm 50 mm

Environmental Data

Temperature range	-25 °C... +85 °C
Installation temperature	-20 °C... +60 °C
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	G_03233
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Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable group	U12 3 mm / 75 Ohm
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Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.4925

b = 0.035

f_{max} = 1

P at 1GHz = 82

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) sea level 40° C ambient temperature
0,05	0,11	0,034	367
0,1	0,16	0,049	259
0,15	0,2	0,060	212
0,2	0,23	0,069	183
0,25	0,26	0,078	164
0,3	0,28	0,085	150
0,35	0,3	0,093	139
0,4	0,33	0,099	130
0,45	0,35	0,105	122
0,5	0,37	0,111	116
0,55	0,38	0,117	111
0,6	0,4	0,123	106
0,65	0,42	0,128	102
0,7	0,44	0,133	98
0,75	0,45	0,138	95
0,8	0,47	0,143	92
0,85	0,48	0,147	89
0,9	0,5	0,152	86
0,95	0,51	0,156	84
1,0	0,53	0,161	82